FIG. 1A

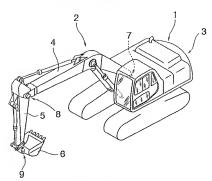


FIG. 1B

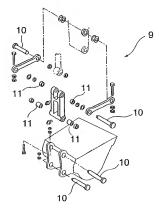


FIG. 2

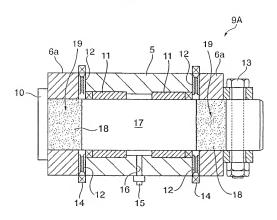




FIG. 3A

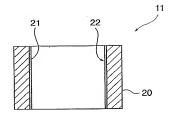


FIG. 3B

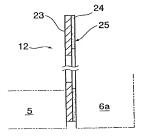


FIG. 4

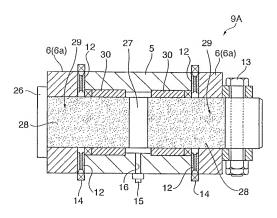


FIG. 5A

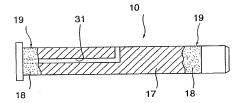
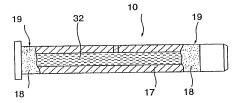
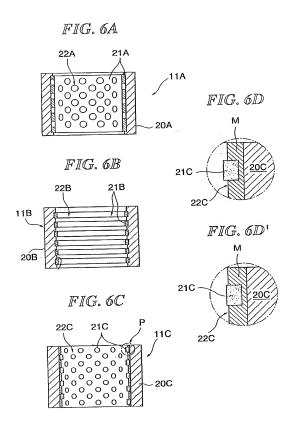


FIG. 5B





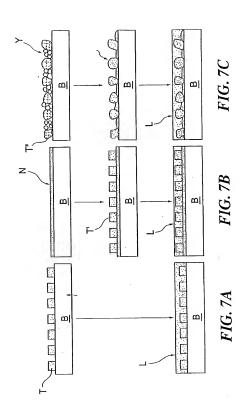


FIG. 8A



FIG. 8B



FIG. 9A

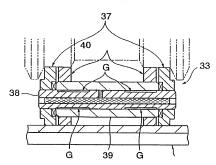
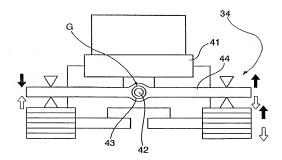


FIG. 9B



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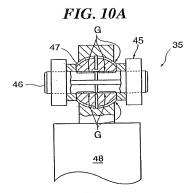
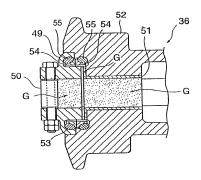
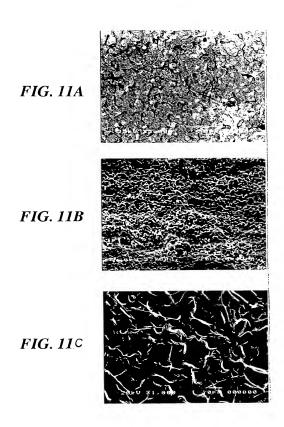
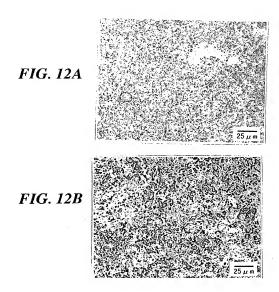
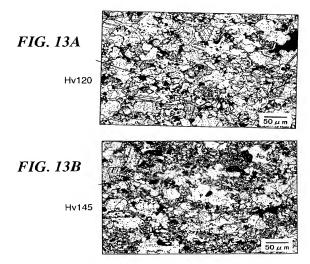


FIG. 10B









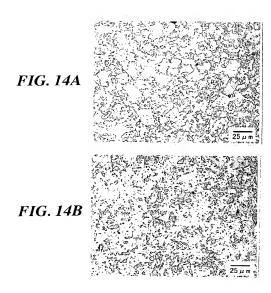


FIG. 15

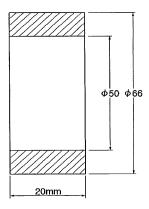


FIG. 16

- △: CONVENTIONAL SINTERED MATERIAL
- O: RECENT SINTERED MATERIAL

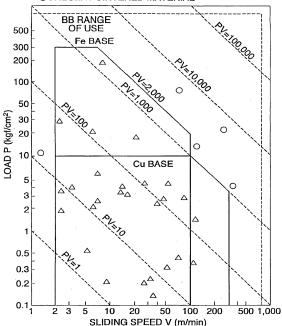


FIG. 17

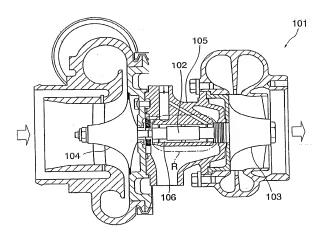


FIG. 18A

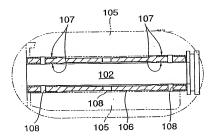


FIG. 18B

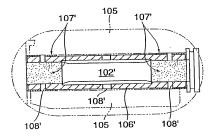


FIG. 19A

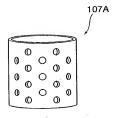
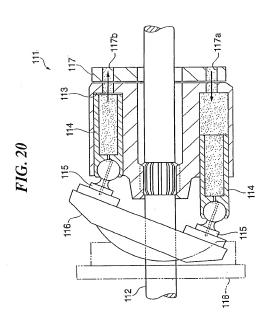


FIG. 19B





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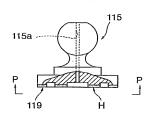


FIG. 21B

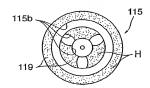


FIG. 21C

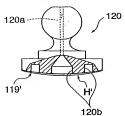
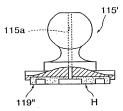
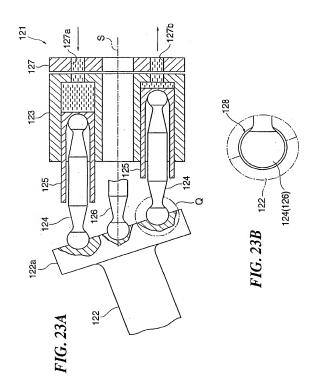
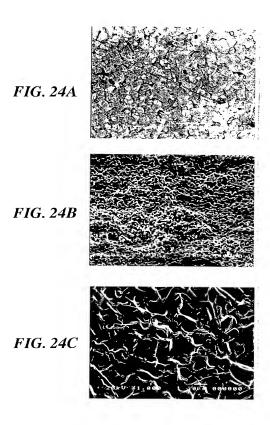
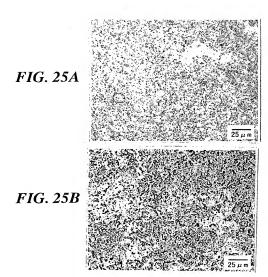


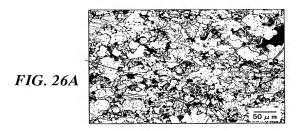
FIG. 22











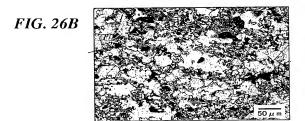


FIG. 27A

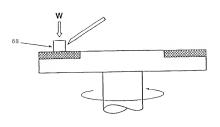


FIG. 27B

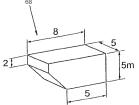


FIG. 27C

CONDITION

: CARBURIZED AND QUENCHED SCM420 REFERENCE

SURFACE HARDNESS: HRC60~62

SURFACE ROUHNESS: UNDER 3S

LUBRICATING OIL: #E10 AMOUNT: 5cm3/min(DROP)

TEMPERATURE: 60℃

SLIDING SPEED: 10m/sec

BEARING STRESS: Max800kgf/cm²

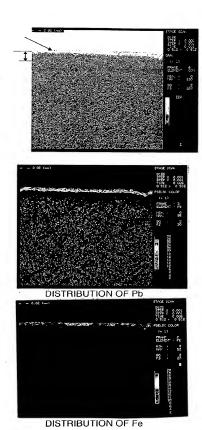


FIG. 28A

FIG. 28B

FIG. 28C

